

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 16, 2005, 16:27:09 ; Search time 46.7752 Seconds  
(without alignments)  
1479.409 Million cell updates/sec

Title: US-10-003-356-8

Perfect score: 4904

Sequence: 1 MFERRKEQDEPGIHEFLAF.....TVSTVLDRLVLYMCLKIQ 927

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA.\*

- 1: /cgn2\_6/prodata/1/iaa/5A\_COMB.pep.\*
- 2: /cgn2\_6/prodata/1/iaa/5B\_COMB.pep.\*
- 3: /cgn2\_6/prodata/1/iaa/6A\_COMB.pep.\*
- 4: /cgn2\_6/prodata/1/iaa/6B\_COMB.pep.\*
- 5: /cgn2\_6/prodata/1/iaa/PCTUS\_COMB.pep.\*
- 6: /cgn2\_6/prodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1700	34.7	1059	3	US-09-134-513-2
2	1695.5	34.6	1085	1	US-08-485-588-5
3	1695.5	34.6	1085	1	US-08-484-565-5
4	1695.5	34.6	1085	2	US-08-480-751-5
5	1695.5	34.6	1085	2	US-08-943-986-5
6	1695.5	34.6	1085	3	US-08-353-784-5
7	1695.5	34.6	1085	3	US-08-484-719B-5
8	1695.5	34.6	1085	3	US-08-484-159-5
9	1690.5	34.5	1079	1	US-08-485-588-8
10	1690.5	34.5	1079	1	US-08-484-565-8
11	1690.5	34.5	1079	2	US-08-480-751-8
12	1690.5	34.5	1079	2	US-08-943-986-8
13	1690.5	34.5	1079	3	US-08-353-784-8
14	1690.5	34.5	1079	3	US-08-484-719B-8
15	1690.5	34.5	1079	3	US-08-484-159-8
16	1688.5	34.4	1027	3	US-09-162-021B-2
17	1688.5	34.4	1027	4	US-10-268-051-8
18	1687.5	34.4	1078	1	US-08-485-588-7
19	1687.5	34.4	1078	1	US-08-484-565-7
20	1687.5	34.4	1078	2	US-08-480-751-7
21	1687.5	34.4	1078	2	US-08-943-986-7
22	1687.5	34.4	1078	3	US-08-353-784-7
23	1687.5	34.4	1078	3	US-08-484-719B-7
24	1687.5	34.4	1078	3	US-08-484-159-7
25	1673.5	34.1	1088	1	US-08-485-588-6
26	1673.5	34.1	1088	1	US-08-484-565-6
27	1673.5	34.1	1088	2	US-08-480-751-6

28	1673.5	34.1	1088	2	US-08-943-986-6	Sequence 6, Appli
29	1673.5	34.1	1088	3	US-08-353-784-6	Sequence 6, Appli
30	1673.5	34.1	1088	3	US-08-484-719B-6	Sequence 6, Appli
31	1673.5	34.1	1088	3	US-08-484-159-6	Sequence 6, Appli
32	1520.5	31.0	851	4	US-09-619-353-12	Sequence 12, Appli
33	1485	30.3	856	4	US-09-619-353-8	Sequence 8, Appli
34	1460.5	29.8	975	4	US-09-687-289A-6	Sequence 4, Appli
35	1451.5	29.6	1219	2	US-08-687-289A-6	Sequence 6, Appli
36	1451.5	29.6	1219	4	US-09-435-897-6	Sequence 6, Appli
37	1446	29.5	854	4	US-09-619-353-10	Sequence 10, Appli
38	1422	29.0	835	4	US-09-619-353-7	Sequence 7, Appli
39	1002	20.4	1058	4	US-08-687-289A-5	Sequence 5, Appli
40	1002	20.4	1058	4	US-09-435-897-5	Sequence 5, Appli
41	990	20.2	877	4	US-09-619-353-2	Sequence 2, Appli
42	952	19.4	863	4	US-09-619-353-14	Sequence 14, Appli
43	818.5	16.7	879	1	US-08-072-574-6	Sequence 6, Appli
44	818.5	16.7	879	1	US-08-486-270-6	Sequence 6, Appli
45	818.5	16.7	879	3	US-08-367-264-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1  
US-09-134-513-2  
; Sequence 2, Application US/09134513  
; Patent No. 6210964  
; GENERAL INFORMATION:  
; APPLICANT: Brown, Edward M.  
; APPLICANT: Diaz, Ruben  
; APPLICANT: Bai, Mei  
; APPLICANT: Quinn, Stephen J.  
; TITLE OF INVENTION: The Avian Extracellular Calcium-Sensing  
; TITLE OF INVENTION: Receptor  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Vinson & Elkins L.L.P.  
; STREET: 1455 Pennsylvania Avenue, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: U.S.  
; ZIP: 20004-1008  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/134,513  
; FILING DATE:  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sanzo, Michael A.  
; REGISTRATION NUMBER: 36,912  
; REFERENCE/DOCKET NUMBER: BRI331/13003  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202)639-6585  
; TELEFAX: (202)639-6604  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1059 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: not relevant  
; TOPOLOGY: not relevant  
; MOLECULE TYPE: protein  
; HYPOTHETICAL: NO  
US-09-134-513-2

Query Match 34.7%; Score 1700; DB 3; Length 1059;  
Best Local Similarity 37.6%; Pred.No. 9.4e-150;  
Matches 349; Conservative 182; Mismatches 333; Indels 64; Gaps 16;  
QY 18 LAPLW--ABLGSEAKEKEERTCRLLGKCVDAENHSLVIGLFPIDSRTPANESI-LE 74

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Db 11 LLFTWNTAAAYGPNQRAQKGD-----IILGGLFPIHFVAAKQDLKSR 54
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Db 55 PESVECIYRNGRFRWQAMIFALEEINNSPLNNTLGYRFDTCNTVSKALEATLSF 114
QY 135 LTQOE---ENRPNRNGTGAPPA--GIVGAGGSFLSVPAIRIILGLVLPQVGYTSCVIL 189
Db 115 VAQNKIDSLNDEFNCSEHIPSTIAVVGATGSGVSTAVANLILGLFYIPQVSVASSRLL 174
QY 190 SDKYQPSYRVIASDKIQKAVVVRIOHFGWVWVGAIAADDYKYGKVKTKPKRMESAN 249
Db 175 SNKQFKSFLRTIPNDSHQATAMADIEYFRWNVGTIAADDYGRPGTEKPREAEERD 234
QY 250 LCVAFSEITPKVYNEKQKAVKAVTSTAKVILVYTSIDLSLVLEMHNNITDRTWI 309
Db 235 ICIDFSELSIQSDEEIQVVEIQNSTARVIVWSSGPDLEPLKEIVRRNITKILW 294
QY 310 ATEAWITSALIAKPEYFPFGTIGPATRSPVPLKEFLYDVHPNKPNDVLTIEFWOT 369
Db 295 ASEAWASSLIAMPEFRVGTIGTIPALKAGQIPGREFLOKVPKPSANNGPAKEFWEE 354
QY 370 AFNCTWPN-----SSVPYVNDHRVNM-TCKEDRLYDMSDQLCTGBEKLKNTYLDTS 422
Db 355 TFNCVLPSESNSPASAFHKAHEEGLGAGNGTAAPRP---CTGDNITSVETPYMDFT 411
QY 423 QLRITKQCKQVAYIAHGLHSLRCQGGQPGSGNOCCAYIPFPDWQWLMYMKKEIKPKS 482
Db 412 HLRSYNYVLAVYSINALQDIYCTCTPGKLP--TNGSCADIKVEAWQVHLKHLRLNFTS 470
QY 483 HEDKWLIDDDGLKNGHYDVLANHLD--DEGEISFTVGVFRNPRSTNFFELVPTNSTIWF 541
Db 471 NMGEVDFDEGDLV--GNYSIINHLSPEGVSUVFVEGHYNYAKKGELFNENKILM 529
QY 542 NTESRPHSVCTDVCPPGTGRGVQREPICCFDSIPCADGVSRKPGERECEQCGEDYW 601
Db 530 SGFSKEVPFNSCRDCLPGTRKGIIEGEPTCCFECVDCPDGEYSDTASACDKCPEDYW 589
QY 602 SNAQSCVLKEVYLAYDEALGFTLVLSVFGAFVVLATVAVYVHRHTPLVNASDWOL 661
Db 590 SNEHTSCIPKIEFLSWTEPFGIALTLFVGLGIFTSFVLGVFTKFRNTPIVKANREL 649
QY 662 GFLIQVSLIIMLLSSMLPIDKPHNWSMAGQVTLALGSLCLGLKTSLSFLAYRISK 721
Db 650 SYLLFSLLCFSSLSLFIQEPQWNTCLRQPAFSGISFVLCISILVKNRVLVFE-AK 708
QY 722 SKTQTSMPHYRK-----IIVLSVLAIEGICPAYILILBPPMYKYMESQNTKIL 773
Db 709 IPTS-----LHRKWWGLNLQFLVFLCTFVQIVICVIMLYTAPPSSYRNHELEDEIFI 762
QY 774 GCNEISIEFLYSMEGIDAFALCLFLTFVARQLPDNYEGKCIITGMLVFFIWNFSVP 833
Db 763 TCHESGLMALGFLIGYTCLLAAICFFPAFKSRKLIPNFENAKFITFSMLIFFIWTISFP 822
QY 834 VYLSKGFKAIVFAIFAILASSHGLLCIFAPKCLIIILPERNTSEIVCGRVSTTDNCI 893
Db 823 AYASTYKGVSAVEVIALAASFGLLACIFPNKYIILFKPSNTIEEV--RCSAAHAF 880
QY 894 QLTSAFV-----SSELNNTVTST 911
Db 881 KVAARATLRRNSVRKRSNLSGGSTGT 908

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RESULT 2

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US-08-485-588-5
; Sequence 5, Application US/08485588
; Patent No. 5688938
; GENERAL INFORMATION:
; APPLICANT: Edward M. Brown
; APPLICANT: Steven C. Hebert
; APPLICANT: Forrest H. Fuller
; APPLICANT: James E. Garrett, Jr.

```

```

; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: First Interstate World Center
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FASTSEQ
; CURRENT APPLICATION DATA:
; FILING DATE: 7 June, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: 9
; APPLICATION NUMBER: 08/353,784
; FILING DATE: 9 December, 1994
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 213/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1085 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-485-588-5

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Query Match 34.6%; Score 1695.5; DB 1; Length 1085;
Best Local Similarity 39.3%; Pred. No. 2.6e-149;
Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;

QY 53 LVIGLGFPIDSTRIPANESI-LEPASAKCEGPFQFRWMMKAMHMKINRKRDLNIT 111
Db 33 IILGGLFPIHFVAAKQDLKSRPESVECIYRNGRFRWQAMIFALEEINNSPLNNT 92
QY 112 TLGYQIETPCFTISKSVREAVLVLGTQOE---ENRPNRNGTGAPPA--GIVGAGGSFLSV 166
Db 93 TLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNDEFNCSEHIPSTIAVVGATGSGIST 152
QY 167 PASRILGLYLPQVGYTSCVILSDKYQPSYRVIASDKIQKAVVVRIOHFGWVWVGA 226
Db 153 AVANLILGLFYIPQVSVYASSSRLLSNKNQPKSFLRTIPNDSHQATAMADIEYFRWNVGT 212

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 Db 333 EFLQKHPRKSVHNGFAKEFWETFNCHLOEAGKGLPVD--TFLRGHEGGARLSNST 390  
 QY 404 ----LCTGEEKLEDKNTYDTSQRLITKCKQKQAVYAIAGLDHLSCQEGQPPGSGNOQ 459  
 Db 391 AFRPLCTGSENISSVETPYMDYTHLRSYVNLAVYSIAHALQDIYTCIPGRGLF-TNGS 449  
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 QY 579 CADGHVSRRPGERECQCEGYWSNAOKSECVLKEVEYLAYDEALGFTLIVLSVFGAFV 638  
 Db 569 CPDGEYSDETDASACDKPDDFWSNENHTSCIAKEIEFLSWTEPPFGIALTLFAVLGIFLT 628  
 QY 639 LATAVVYHRTPLYNADWQGLFLOVSLIIMLLSMLFTDKPHWSCMAGQVTLALG 698  
 Db 629 AFLVGVFIKPRNPIVKATNRSLYLLFSLCCFSSLFIFGEPODWTCLRLQPAFGLS 688  
 QY 699 FSLCLSLGKTSFLAYRISKSTQLTSMHPLVRK-----IIVLSVLARIGICT 750  
 Db 689 FVLCISILVKNRVLVLP---EAKIP-TSFH---RWGLNQLFLLVFLCTFMQIVICA 741  
 QY 751 AVILBPPMYKMSQNTKIILGCNEISIEFLYSMFGIDAFIALLCPLTTFVARQLPN 810  
 Db 742 IWLNTAPPSSYRNHELEDEIIPITCHEGSLMALGFLIGVTCLLAALCFPPAFKSKLPEN 801  
 QY 811 YIEGKCTITGMLVFFIIVWSFVYVYSTGKPKMAVEIFAILASSHGLIGCIPAPKCLII 870  
 Db 802 FNEAKETITSMILFFIIVWSFIPAYASTYKGFVSAVEVIAILAAAFGLLACIFFNKKVYII 861  
 QY 871 LLRPERNTSEIVCGRYSTTDNCIOLTSFV-----SSLENNNTVST 911  
 Db 862 LFKPSRNTIEEV--RCSAHAFKVAARATLRNSVRSORSSSLGGSTGST 910

RESULT 3

US-08-484-565-5  
 ; Sequence 5, Application US/08484565  
 ; Patent No. 5763569  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Edward M. Brown  
 ; APPLICANT: Steven C. Hebert  
 ; APPLICANT: James B. Garrett, Jr.  
 ; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
 ; TITLE OF INVENTION: MOLECULES  
 ; NUMBER OF SEQUENCES: 20  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: First Interstate World Center  
 ; STREET: Suite 4700  
 ; STREET: 633 West Fifth Street  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 90071  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
 ; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: FASTSEQ  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/484,565  
 FILING DATE: 7 June, 1995  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA: including application  
 PRIOR APPLICATION DATA: described below: 9  
 APPLICATION NUMBER: 08/353,784  
 FILING DATE: 9 December, 1994  
 APPLICATION NUMBER: PCT/US/94/12117  
 FILING DATE: 21 October, 1994  
 APPLICATION NUMBER: U.S. 08/292,827  
 FILING DATE: 23 August, 1994  
 APPLICATION NUMBER: U.S. 08/141,248  
 FILING DATE: 22 October, 1993  
 APPLICATION NUMBER: U.S. 08/009,389  
 FILING DATE: 23 February, 1993  
 APPLICATION NUMBER: U.S. 08/017,127  
 FILING DATE: 12 February, 1993  
 APPLICATION NUMBER: U.S. 07/934,161  
 FILING DATE: 21 August, 1992  
 APPLICATION NUMBER: U.S. 07/834,044  
 FILING DATE: 11 February, 1992  
 APPLICATION NUMBER: U.S. 07/749,451  
 FILING DATE: 23 August, 1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Heber, Sheldon O.  
 REGISTRATION NUMBER: 38,179  
 REFERENCE/DOCKET NUMBER: 213/006  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (213) 489-1600  
 TELEFAX: (213) 955-0440  
 TELEX: 67-3510  
 INFORMATION FOR SEQ ID NO: 5:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1085 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-484-565-5

Query Match 34.6%; Score 1695.5; DB 1; Length 1085;  
 Best Local Similarity 39.3%; Pred. No. 2.6e-149;  
 Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;  
 QY 53 LVIGGLFPIDSRITPANESI-LEPASAKCEGNFORFRMKAMIHMIKEINRKRDLPMI 111  
 Db 33 IILGGLFPIHFGVAVKQDOLKSRPESVBCIRYNFRGFRWLQAMITAEIBINSPLLNN 92  
 QY 112 TLGYOIEPTCTTISKSVRAVLVFLTQGE---ENRPNFRNSTGAPPA--GIVGAGGSFLSV 166  
 Db 93 TLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLFECNCSHIFSTIAVVGATSGIST 152  
 QY 167 PASRIILGLYLPQVGVTSTCVILSDKYQFPPSYLRVIASDKIQSKAVKKEIQHFGWVWGA 226  
 Db 153 AVANLLGLFYIPQVSYASSRLLSNKNQFKSLRTIPNDEHQATAMADIIIEFRWNWVGT 212  
 QY 227 IAADDDYGYKGVKTFKEMESANLCVAFSETIPKVSNEKQKAVKAVTKSTAKVILVYT 286  
 Db 213 IAADDDYGRPGIEKFEAEERDIDFSELISQYSDDEEKIQOVVEVIQNSTAKVIVWFS 272  
 QY 287 SDIDLSLFVLEMIHNITDRWTATAMITTSALIAKPEYFPFGTIGPATRSVIRGLK 346  
 Db 273 SGPDLEPLIKBIVRRNITGRIMLASEAWASSLIAMPEYFVVGVTIGFGLKAGQIPGPR 332  
 QY 347 EFLYDVHPNKPNDVLTIFWQAFNC-TWPNSSVPYVNDHRVNMTEKEDRLYDMSDQ-- 403  
 Db 333 EFLQKHPRKSVHNGFAKEFWETFNCHLOEAGKGLPVD--TFLRGHEGGARLSNST 390  
 QY 404 ----LCTGEEKLEDKNTYDTSQRLITKCKQKQAVYAIAGLDHLSCQEGQPPGSGNOQ 459

391 AFRPLCTGEENISSVETPMYDTHLRISYNNVYLAHQAIDYTCIPGRGLF-TNGS 449  
 QY 460 CAYITPFPQWLMYMKIEIKFSDHDKWVLDNDGDLKNGHYOVNHLNLD-DGEISFVT 518  
 Db 450 CADIKKVEAWQVHLKHLRHLNFTSNMGQVTFDECGDLA-GNYSIINHLSPEDGSIVFKE 508  
 QY 519 VGRFNRSTNFBELVPTNSTIFWNTSSRLPHSVCTDVCPPGTRGVQREPICCPDSIP 578  
 Db 509 VGYNNVYAKKERLFINDEKILMSGFREVFFNSCRDCLAGTRKGIIEGPTCCPECVE 568  
 QY 579 CADGHVSRKPGRECEOCGEDYWSNAQKSECVLKEVEYLAYDEALGFTLVILSVFGAFV 638  
 Db 569 CPDGEYSDETDASACDKCPDDFWSENHTSCIAKEIEFISWTFPGFGLTFLFAVLGIFLT 628  
 QY 639 LAVTAVYVHRHTPLVNASDWOLGFLIOVSLIIMLSMLFIDKPHNWSMACQVTLALG 698  
 Db 639 AFRPLCTGEENISSVETPMYDTHLRISYNNVYLAHQAIDYTCIPGRGLF-TNGS 449  
 QY 699 FSLCLSLGKTSSFLAYRISKSTQLTSMHPLRK-----IVLISVLAEGICT 750  
 Db 689 FVLGISCILVKTNRVLPV---EAKIP-TSEH---RKWGLNQLQFLVFLCTFMQIVICA 741  
 QY 751 AYLILEPVMYKNMESQNTKIILCNESIEFFYSMFGIDAFIALLCFLTFVARQLPDN 810  
 Db 742 IWLNTADPSSYRNHELEDEIFITCHEGSLMALGFLIGYTCLLAAICFPFAPKSRKLPEN 801  
 QY 811 YVEGKCTFGMLVFPITWMSFVPLSTKGFMAVEIFAILASSHGLGCIAPKCLII 870  
 Db 802 FNEAKFITFMLIFPVIWISIPAYASTYKGFSAVEVIALAASFGLLACIFPNKYII 861  
 QY 871 LLRPERNTSEIVGRVSTNOCITQTSFAV-----SSELNNTVST 911  
 Db 862 LFKSRTNIEV---RCSTAAHFAKVARATLRNSVRQSSSLGSGTST 910

RESULT 4

US-08-480-751-5  
 ; Sequence 5, Application US/08480751  
 ; Patent No. 5858684  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Edward F. Nemeth  
 ; APPLICANT: Edward M. Brown  
 ; APPLICANT: Steven C. Hebert  
 ; APPLICANT: Forrest H. Fuller  
 ; APPLICANT: James E. Garrett, Jr.  
 ; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
 ; TITLE OF INVENTION: MOLECULES  
 ; NUMBER OF SEQUENCES: 20  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lyon & Lyon  
 ; STREET: First Interstate World Center  
 ; STREET: Suite 4700  
 ; STREET: 633 West Fifth Street  
 ; CITY: Los Angeles  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 90071  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: FASTSEQ  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/480,751  
 ; FILING DATE: 7 June, 1995  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; PRIOR APPLICATION DATA: including application  
 ; PRIOR APPLICATION DATA: described below: 9  
 ; APPLICATION NUMBER: 08/353,784  
 ; FILING DATE: 9 December, 1994  
 ; APPLICATION NUMBER: PCT/US/94/12117  
 ; FILING DATE: 21 October, 1994

APPLICATION NUMBER: U.S. 08/292,827  
 FILING DATE: 23 August, 1994  
 APPLICATION NUMBER: U.S. 08/141,248  
 FILING DATE: 22 October, 1993  
 APPLICATION NUMBER: U.S. 08/009,389  
 FILING DATE: 23 February, 1993  
 APPLICATION NUMBER: U.S. 08/017,127  
 FILING DATE: 12 February, 1993  
 APPLICATION NUMBER: U.S. 07/934,161  
 FILING DATE: 21 August, 1992  
 APPLICATION NUMBER: U.S. 07/834,044  
 FILING DATE: 11 February, 1992  
 APPLICATION NUMBER: U.S. 07/749,451  
 FILING DATE: 23 August, 1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Heber, Sheldon O.  
 REGISTRATION NUMBER: 38,179  
 REFERENCE/DOCKET NUMBER: 213/004  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (213) 489-1600  
 TELEFAX: (213) 955-0440  
 TELEX: 67-3510  
 INFORMATION FOR SEQ ID NO: 5:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1085 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-480-751-5

Query Match 34.6%; Score 1695.5; DB 2; Length 1085;  
 Best Local Similarity 39.3%; Pred. No. 2.6e-149;  
 Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;

QY	53	LVIGLFPIDSRTPANESI-LEPASACGEFNFQFRWMMKAMHMIKEIKRDIILPNI	111
Db	33	IILGGLFPIHFGVAVKQDLKSRPESVEICRYNFRGFMQLQAMIFAEIENSSPALLPNM	92
QY	112	TLGYQIDFTCTPISKSVEAVLPLTQGE---ENRPNFRSTGAPPA--GIVGAGGSFLSV	166
Db	93	TLGYRIFDTCNTVSKALEATLSFVAQNKIDSLMLDEFNCSEHIPSTIAVVGATSGIST	152
QY	167	PASRIILGYLPQVGYTSTCVILSDKYQFPSPYLRVIAADKIQSKAVVKRIHQHGWVWGA	226
Db	153	AVANLLGLFYIQQVSASSRLLSNKNQPKSFLRTIPNDEHQATAMADILEYFANWVGT	212
QY	227	IAADDYKGYKVTGPKRMESANLCVAFSETIPKYSNEMQKAVKAVTSTAKVIVLYT	286
Db	213	IAADDYGRPGIEKFEAEERDIDICIDFSELISQYSDEEKIQQWVEVIQNSTAKVIVVFS	272
QY	287	SDIDLFLVLEMHNIHNTDRTWIAEAWITSALIAKPEYPPYEGGTGFATPRSVIPLK	346
Db	273	SGFDLEPLIKEIVRRNITGRIMLASEAWASSLSIAMPYFHVVGVTGFGKAGQIPGFR	332
QY	347	EFLYDVHPNKPNDVLTIEFWQTAFCN-TWPNSSVFPYNDVHRVNMTCGEDRLYDMSQ--	403
Db	333	EFLQKVPKPSVHNGFAKEFWETFNCHLQEGAKGLPVD--TFLRGHESGARLSNSPT	390
QY	404	----LCTGEEKLEDLKNTYDTSQRLITKQCOAVYAIAGHLDLHLSRCQSGQPGGNNQ	459
Db	391	AFRPLCTGEENISSVETPMYDTHLRISYNNVYLAHQAIDYTCIPGRGLF-TNGS	449
QY	460	CAVITPFDPMQWLMYMKIEIKPKSHEDKWLIDNDGDLKNGHYDVLNHLNLD-DGEISFVT	518
Db	450	CADIKKVEAWQVHLKHLRHLNFTSNMGQVTFDECGDLA-GNYSIINHLSPEDGSIVFKE	508
QY	519	VGRFNRSTNFBELVPTNSTIFWNTSSRLPHSVCTDVCPPGTRGVQREPICCPDSIP	578
Db	509	VGYNNVYAKKERLFINDEKILMSGFREVFFNSCRDCLAGTRKGIIEGPTCCPECVE	568
QY	579	CADGHVSRKPGRECEOCGEDYWSNAQKSECVLKEVEYLAYDEALGFTLVILSVFGAFV	638
Db	569	CPDGEYSDETDASACDKCPDDFWSENHTSCIAKEIEFISWTFPGFGLTFLFAVLGIFLT	628

QY 639 LAVAVYVHRHTPLVNASDQGLFIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALG 698  
Db 629 AFLVGVFIKPRNTPIVKATNRELSYLLLSLCCFSSLPFFIGEPQDWTCLRQPAFGIS 688  
QY 699 FSLCLSLGKTSLSLAYRISKSKQLTSMHPLYRK-----IIVLSVLAEIGICT 750  
Db 689 FVLICILVKNRVLVLF---BAKIP-TSFH---RKMWGLNQLFLVLTCTPMQIVICA 741  
QY 751 AYVILEPPMYKNMESONTKIIILGCNEISIEFLYSMFGIDAFIALLCFLTTFVARQLPDN 810  
Db 742 IWLNTAPPSYRNHELEDEIIFITCHEGSLMAGFLIGYTCLLAAICFFPAPKSKLPEN 801  
QY 811 YYGKCIITFGMLVFFPIIWMSPVYVYSTGKFKPMAVEIPAILASSHGLGICIPAPKCLII 870  
Db 802 FNEAKTITFSMLFFIIVISFIPAYASTYKGFVSAVEVIALAASFGLLACIPFNKVII 861  
QY 871 LLAPERTSIVCGRVSTTDCNLQLTSAFV-----SSLANNTTWTST 911  
Db 862 LFKPSRNTIEV---RCSTAHAAPKVAARATLRNSVNSRORSSSLGGSTGST 910

## RESULT 5

US-08-943-986-5

Sequence 5, Application US/08943986

Patent No. 5962314

GENERAL INFORMATION:

APPLICANT: Edward M. Brown

APPLICANT: Steven C. Hebert

APPLICANT: James E. Garrett, Jr.

TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon &amp; Lyon

STREET: First Interstate World Center

STREET: Suite 4700

STREET: 633 West Fifth Street

CITY: Los Angeles

STATE: California

COUNTRY: USA

ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: FASTSEQ

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/943,986

FILING DATE: 03-OCT-1997

CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/484,565

FILING DATE: 7-June-1995

APPLICATION NUMBER: 08/353,784

FILING DATE: 9 December, 1994

APPLICATION NUMBER: PCT/US/94/12117

FILING DATE: 21 October, 1994

APPLICATION NUMBER: U.S. 08/292,827

FILING DATE: 23 August, 1994

APPLICATION NUMBER: U.S. 08/141,248

FILING DATE: 22 October, 1993

APPLICATION NUMBER: U.S. 08/009,389

FILING DATE: 23 February, 1993

APPLICATION NUMBER: U.S. 08/017,127

FILING DATE: 12 February, 1993

APPLICATION NUMBER: U.S. 07/934,161

FILING DATE: 21 August, 1992

APPLICATION NUMBER: U.S. 07/834,044

FILING DATE: 11 February, 1992

APPLICATION NUMBER: U.S. 07/749,451

FILING DATE: 23 August, 1991

ATTORNEY/AGENT INFORMATION:

NAME: Heber, Sheldon O.  
REGISTRATION NUMBER: 38,179  
REFERENCE/DOCKET NUMBER: 213/006  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1085 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-943-986-5

Query Match 34.6%; Score 1695.5; DB 2; Length 1085;  
Best Local Similarity 39.3%; Pred. No. 2.6e-149;  
Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;

QY 53 LVIGGLFPIDSRTPANESI-LEPASAKCEGFNQRFRWKAMIMKIKRKKDILPNI 111  
Db 33 IILGGLFPIHPGVAVKQDLKSRPESVEICIRYFRGRWLOAMIPIAIBINSALLPNN 92  
QY 112 TLGYQIFDTCPTISKSVZAVLPLTQOE---ENRPNFRNSTGAPPA--GIVGAGGSFLSV 166  
Db 93 TLGYRIFDTCNTVSKALEATLSFAQNKIDSLNLDSEFCNSBHIPSTIAVVGATSGIST 152  
QY 167 PASRIILGYLPQGVTSCTVILSDKYQPPSYLVRIASDKIOSKAVVVKRIOHFGWVWGA 226  
Db 153 AVANLLGLFYIPQVSYASSRLLSNQKFKSLRTIPNDEHQATNADIIIEYFRMNVGT 212  
QY 227 IAADDDYGYKYGKTKPKMESANLCVAFSETIPKVVSNEMQKAKAVKTKSTAKVILVYT 286  
Db 213 IAADDDYGRPIEKFREABERDIDCFSELISQVSDDEKIQQVVEVIQNSTAKVIVFS 272  
QY 287 SDIDLSLFVLEMHNITDRTWIAEAWITSALIAKPEYFPFGGIGIATPRSVIPGLK 346  
Db 273 SGPDLEPLIKEIVRRNITGRILWASEAWASSLLIAMPEYFHVVGSTIGFGLKAGQIPGR 332  
QY 347 BFLYDVHPNKPNDVLTIBFMQTAFCN-TWPNSSVPYVNDHRVNMVTKGDRLYDMSDQ-- 403  
Db 333 BFLQKVHPKSVHNGFAKEFWETFNCHLOEAGKGLPLVD--TFLKGHEGREGARLNSPT 390  
QY 404 ----LCTGEEKLEDKNTYLDTSOLRITKQCKQAVYIAHGLDHLRSCQGGQPPGSGNQ 459  
Db 391 AFRPLCTGEENISSVETPYMDVTHLRISYVNVYLAIVSYIAHALQDIYTCIPGRGLP-TNGS 449  
QY 460 CAYIPTDFWQLMYMKEIKFKSHEDKWLDDNGDLKNGHYDVLDLNNHLD-DEGEISFVT 518  
Db 450 CADIKKVEAWQVLKHLRLNFTSNMGEQVTFDECGDLA-GNYSIINWHLSPEDGSIVPKE 508  
QY 519 VGRFNPRSTNPELVIPNTSTIFWNTSESRPLPHSVCTDVCPPGTRGFVQREPTCCFDSIP 578  
Db 509 VGYNVYAKKGBRLFINDEKILWSPREVPPNSCRDCLAGTRKGIISGEPTCCFCEVE 568  
QY 579 CADGHVSRKPGRECEQCCEGYWNAQKSECVLKEVEYLAIDEALFTLIVLSVFGAFVV 638  
Db 569 CPDGEVSDTDASACDKCPDFWSENHTSCIAKEIEFLSWTEPFGIALTLPAVLGIFLT 628  
QY 639 LAVTAVYVTHRTPLVNASDQGLFIQVSLIIMLLSSMLFIDKPHNWSMAGQVTLALG 698  
Db 629 APVLGVFIKPRNTPIVKATNRELSYLLLSLCCFSSLPFFIGEPQDWTCLRQPAFGIS 688  
QY 699 FSLCLSLGKTSLSLAYRISKSKQLTSMHPLYRK-----IIVLSVLAEIGICT 750  
Db 689 FVLICILVKNRVLVLF---BAKIP-TSFH---RKMWGLNQLFLVLTCTPMQIVICA 741  
QY 751 AYVILEPPMYKNMESONTKIIILGCNEISIEFLYSMFGIDAFIALLCFLTTFVARQLPDN 810  
Db 742 IWLNTAPPSYRNHELEDEIIFITCHEGSLMAGFLIGYTCLLAAICFFPAPKSKLPEN 801  
QY 811 YYGKCIITFGMLVFFPIIWMSPVYVYSTGKFKPMAVEIPAILASSHGLGICIPAPKCLII 870

Db 802 FNEAKFITFMSLFFIVWISFIPAVASTYKGFVSAVEVIAIAAASFGLLACIPFNKYVII 861  
QY 871 LRPERNTESEIVCGRVSTTDNCIQLTSAFV-----SSELNNTTVST 911  
Db 862 LFKPSRNTIEEV--RCSTAHAFAKVAARATLRNSVRSRQSSSLGGSTGT 910

## RESULT 6

US-08-353-784-5  
; Sequence 5, Application US/08353784

; Patent No. 6011068

; GENERAL INFORMATION:

; APPLICANT: Edward F. Nemeth, Edward M.

; APPLICANT: Brown, Steven C. Hebert,

; APPLICANT: Bradford C. Van Wagenen, Manuel

; APPLICANT: F. Balandrin, Forrest H. Fuller,

; APPLICANT: Eric G. DelMar, and Scott T. Moe

; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE

; TITLE OF INVENTION: MOLECULES

; NUMBER OF SEQUENCES: 20

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon & Lyon

; STREET: First Interstate World Center

; STREET: Suite 4700

; CITY: 633 West Fifth Street

; CITY: Los Angeles

; STATE: California

; COUNTRY: USA

; ZIP: 90071

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: FASTSEQ

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/353,784

; FILING DATE: 9 December, 1994

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA: including application

; PRIOR APPLICATION DATA: described below: 8

; APPLICATION NUMBER: PCT/US/94/12117

; FILING DATE: 21 October, 1994

; APPLICATION NUMBER: U.S. 08/292,827

; FILING DATE: 23 August, 1994

; APPLICATION NUMBER: U.S. 08/141,248

; FILING DATE: 22 October, 1993

; APPLICATION NUMBER: U.S. 08/009,389

; FILING DATE: 23 February, 1993

; APPLICATION NUMBER: U.S. 08/017,127

; FILING DATE: 12 February, 1993

; APPLICATION NUMBER: U.S. 07/934,161

; FILING DATE: 21 August, 1992

; APPLICATION NUMBER: U.S. 07/834,044

; FILING DATE: 11 February, 1992

; APPLICATION NUMBER: U.S. 07/749,451

; FILING DATE: 23 August, 1991

; ATTORNEY/AGENT INFORMATION:

; NAME: Heber, Sheldon O.

; REGISTRATION NUMBER: 38,179

; REFERENCE/DOCKET NUMBER: 209/069

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (213) 489-1600

; TELEFAX: (213) 955-0440

; TELEX: 67-3510

; INFORMATION FOR SEQ ID NO: 5:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1085 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-353-784-5

Query Match 34.6%; Score 1695.5; DB 3; Length 1085;  
Best Local Similarity 39.3%; Pred. No. 2.6e-149;  
Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;

QY 53 LVIGGLFPIIDSRITIPANESI-LBPASAKCGFNFQFRFMKAMTHMIKEINKRKDILPNI 111  
Db 33 IILGGLFPIHFPGVAVKQDLKSRPESVEICIRYFRGFRWLOAMIFALEEINSSPALLPNN 92  
QY 112 TLGYQIFDCTFTISKSVAVLVELTQOE---ENRPNFRNSTGAPPA--GIYVAGGSPLSV 166  
Db 93 TLGYRIFDCTNTVSKALEATLSFVAQNKIDSLNDEFNCSEHIPSTIAVVGATSGIST 152  
QY 167 PASRIILGXYLPQVGYTSCVILSDKYOPFSYLRAVSIADSKIOSKAVVKRIOHFGWVGA 226  
Db 153 AVANLGLFYIPQVSYASSRLLSNKNQFKSFURTIPNDESHQATAMADIIEYFRNWNVGT 212  
QY 227 IAADDDYGYGVKTKFKKEMESANLCVAFSETIPKVSNERKQKAVKAKSTAKVIVLYT 286  
Db 213 IAADDDYGRPIEKFREAEERDIDFSELSIQSDSEKIQQVVEVIONSTAKVIVVFS 272  
QY 287 SIDLSLFVLEMIHNNITDRTWATWITSALIAKPEYFPYFGGTIGFATPRSVIPLK 346  
Db 273 SGPDLLEPIKEIVRRNITGRIMLASEAWASSLIAMPEYFHVVGTTIGFGLKAGIPIGR 332  
QY 347 EFLYDVHPNKDPNDVLTIEFWQTAFC-TWPNSSVPYNDHRVNMTCKEORLYDMSDQ-- 403  
Db 333 EFLQVHPKRSVHNGPAKEFWESTFNCHLQEGAKGLPVD--TFLRGHEEGAGALSNSPT 390  
QY 404 ----LCTGEEKLEDLNTYLDTSQLRITKQCAVVAIAHGLDHLSCQSGQSGPFGSNOQ 459  
Db 391 AFRPLCTGEENISSVETPYMDYTHLRISYNNVLAIVSYIAHLODIYTCIPGRGLF-TNGS 449  
QY 460 CAYIPTDFWQLMYMKKEIKFKSHEDKWILDDNGDLKNGHYDVLNHLD-DEGEISFVT 518  
Db 450 CADIKKVEAWQLKHLRLNFTSNMGEQVTFDECGDLA-GNYSIINWHLSPEDGSIKFKE 508  
QY 519 VGRFNFRSTNEELVPTNSTIFWNTSSRLPHSVCTDVCPPGTRGVQREPICCFDSIP 578  
Db 509 VGYNNYAKKGERLFNDEKILWGSFRREVPPFNSCRDCLAGTRKGIIEGEPTCCFECVE 568  
QY 579 CADGHVSRKPBRECEQCGEDYNSNAQSECVLKEVEYLAYDEALGFTLVLSVFGAFV 638  
Db 569 CPDGEYSDTDASACDKCPDFWSNENHTSCTAKIEFLSWTEPFGIALTLFVLGIFLT 628  
QY 639 LAVTAVVVIHRTPLVNASDWQGLFIQVSLIIMLSMFLDKPHNWSCHAGQVTLALG 698  
Db 629 AFVLGVFIKFRNTPIVKATNRELSYLLFLSCCFSSLSLFFIGEPQDWTCLRQPAFGIS 688  
QY 699 FSLCLSLGKTSLSFLAYRISKSTQLTSMHPLYRK-----IVLISVLAIEIGICT 750  
Db 689 FVLCISCLVKTNRVLLVF--EAKIP-TSFH---RKWGLNLQFLVFLCTFPMQIVICA 741  
QY 751 AVLLEPPMYKYMESQNTKIILGCNEISIEFLYSMFGIDAFIALLCFLTTFVARQLPDN 810  
Db 742 IWLNTAPPSSYRNHELEDEIIFITCHEGSMALGFLIGVTCLLAAICFPFAFKSRKLPEN 801  
QY 811 VYEGKCTFGLVFPFLIWNFSFVNVILSTYKGFMAVEIIFAILASSHGLLCIIPAKCLII 870  
Db 802 FNEAKFITFMSLFFIVWISFIPAVASTYKGFVSAVEVIAIAAASFGLLACIPFNKYVII 861  
QY 871 LRPERNTESEIVCGRVSTTDNCIQLTSAFV-----SSELNNTTVST 911  
Db 862 LFKPSRNTIEEV--RCSTAHAFAKVAARATLRNSVRSRQSSSLGGSTGT 910

## RESULT 7

US-08-484-719B-5

; Sequence 5, Application US/08484719B

; Patent No. 6031003

; GENERAL INFORMATION:

; APPLICANT: Edward F. Nemeth, Edward M.

; APPLICANT: Brown, Steven C. Hebert,

; APPLICANT: Bradford C. Van Wagenen,



```

/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: FASTSEQ
/
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/484,159
/ FILING DATE: 7 June, 1995
/ CLASSIFICATION: 435
/
/ PRIOR APPLICATION DATA:
/ including application
/ PRIOR APPLICATION DATA: described below: 9
/ APPLICATION NUMBER: 08/353,784
/ FILING DATE: 9 December, 1994
/ APPLICATION NUMBER: PCT/US/94/12117
/ FILING DATE: 21 October, 1994
/ APPLICATION NUMBER: U.S. 08/292,827
/ FILING DATE: 23 August, 1994
/ APPLICATION NUMBER: U.S. 08/141,248
/ FILING DATE: 22 October, 1993
/ APPLICATION NUMBER: U.S. 08/009,389
/ FILING DATE: 23 February, 1993
/ APPLICATION NUMBER: U.S. 08/017,127
/ FILING DATE: 12 February, 1993
/ APPLICATION NUMBER: U.S. 07/934,161
/ FILING DATE: 21 August, 1992
/ APPLICATION NUMBER: U.S. 07/834,044
/ FILING DATE: 11 February, 1992
/ APPLICATION NUMBER: U.S. 07/749,451
/ FILING DATE: 23 August, 1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Heber, Sheldon O.
/ REGISTRATION NUMBER: 38,179
/ REFERENCE/DOCKET NUMBER: 214/101
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (213) 489-1600
/ TELEFAX: (213) 955-0440
/ TELEX: 67-3510
/
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1085 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-484-159-5
/
/ Query Match 34.68; Score 1695.5; DB 3; Length 1085;
/ Best Local Similarity 39.34; Pred. No. 2.6e-149;
/ Matches 350; Conservative 173; Mismatches 323; Indels 45; Gaps 15;
/
/ QY 53 LVIGGLPIDSRTIPANESI-LBPASAKCEGFNFRWMMKMIHMIKEINKRKDILPNI 111
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 33 IILGLLPIHFGVAVKQDLKSPESVECIYRNGFRWLMQAMFAIEHINSPPALLPNM 92
/ QY 112 TLGQIFDTCTTISKSVAEVLVLTQGE---ENRPNFRNSTGAPPA--GIVGAGGSFLSV 166
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 93 TLGRIEFTCNTWSKALEATLSFVAQNKIDSLNDEFNCSEHIPSTIAVVGATGSGIST 152
/ QY 167 PASRLGLLYLPQVGTSTCVILSDKYQPSYLRVLTASDKIQSAVVVKLIQHFQWVWGA 226
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 153 AVANLLGLFTIPQVSAYSSRLSNKQPKSFURTPNDEHQATAMADIEYFRMNWGT 212
/ QY 227 IAADDYGYKVTFTKESANLCAVAFSETIPKVTYSNEKQKAVAKVTSTAKVIVLYT 286
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 213 IAADDYGRPIEGKFEAREEDICDFSELISQYSDKEEKIQOVVEIQNSTAKVIVVPS 272
/ QY 287 SDIDLFLVLEMHHTNIDTWTATEAMTISALIAKPEYPPYGGTIGFATPRSVIPGLK 346
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 273 SGPDLEPLIKEIVRRNITGRWLASEAWASSLIAMPEYFHVVGVTIGFLKAGQIPGPR 332
/ QY 347 EFLYDVHPKDPNDVLTIBETWQAFNC--TWPNSVVPYVDHVRVNMTKEDRLYDMSDQ-- 403
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 333 EFLQKVHPRKSVNGFAKEFWETFNCHLQBGAKGLPVD--TFLRGHEEGARLSNSPT 390

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/
/ QY 404 ----LCTGEEKLEDLKNYLTDSQIRITKOCKOAVYAIHAHDLHLSRCQEGPFGSNQ 459
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 391 AFRPLCTGBENISSVETPYNDYTHLRISVNVYLAIVSYIAHALQDIYTCIPGRGLF-TNGS 449
/ QY 460 CAXIPTDFWQLMYMYMKEIKFKSHEDKWVILDDNGDLKNGHYDVLNNWHLD--DEGEISFVT 518
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 450 CADIKKVEAWQVLKHLRHLNFTSNWGEQVTFDSCGDLA-GNYSIINWHLSPEDSIVPEKE 508
/ QY 519 VGRFNRSTNFELVPIPTNSTIFWNTSSRLPHSVCTDVCPPTGRTGRTGRTGRTGRTGRTG 578
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 509 VGYNVYAKKGERLFINDEKILWGSFREVPPFNSCRDCLAGTKGIIEGEPTCCFEVCE 568
/ QY 579 CADGHVSRKRGEBECQCEQEDYWSNAQKSECVLKEVEYLAYDEALGFTLVILSVFGAPV 638
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 569 CPDGEYSDTDASACDKCPDFWNSNENHTSCIATKIEFLSWTEPPFGIATLFAVLGIFLT 628
/ QY 639 LAVTAVVTHRHPTPLVNASDWOLGFLIOVSLIIMLLSSMLFIDKPHNWSMAGQVTLALG 698
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 629 AFVLGVFIKFRNTPIVKATNRELSYLLPSLLCCFSSSLFFIGEPQDWTCLRQAPAGIS 688
/ QY 699 FSLCGLGKTSLSPLAYRISKSTQLTSMHPLYRK-----IIVLSVLABIGICT 750
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 689 FVLICISILVKTNRVLLVF---EAKIP-TSFH---RKWMLNLQFLVFLCTFMQIVICA 741
/ QY 751 AVILLEPPMVYKNMSSONTKILGCNEISIERLYSMFGIDAFALALLCLFTTFVARQLPDN 810
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 742 IWLNTAPSSSYRNHELEDEIIFITCHEGSMALGFLIGYTCLLAAICFFFAFKSRKUPEN 801
/ QY 811 YYEGKITEGMLVFFIIMNSFVPLVLTGKFKMAVEIEIFAILASSHGLLGCIFAPKCLII 870
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 802 FNEAKFITFSLIFFIVWISFIPAYASTYKGFVSAVEVIAILAAISFGLLACIFPNKVYII 861
/ QY 871 LLRPERNTSEIVCGRVSITDNCIQLTSFV-----SSELNNTTST 911
/ DB :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
/ 862 LFKPSRNTIEEV--RCSTAAHAFKVAARATLRNSVRSQRSSSLGGSGTST 910
/
/ RESULT 9
/ US-08-485-588-8
/ Sequence 8, Application US/08485588
/ Patent No. 5688938
/ GENERAL INFORMATION:
/ APPLICANT: Edward M. Brown
/ APPLICANT: Steven C. Hebert
/ APPLICANT: Forrest H. Fuller
/ APPLICANT: James E. Garrett, Jr.
/ TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
/ TITLE OF INVENTION: MOLECULES
/ NUMBER OF SEQUENCES: 20
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Lyon & Lyon
/ STREET: First Interstate World Center
/ STREET: Suite 4700
/ STREET: 633 West Fifth Street
/ CITY: Los Angeles
/ STATE: California
/ COUNTRY: USA
/ ZIP: 90071
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: FASTSEQ
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/485,588
/ FILING DATE: 7 June, 1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ including application
/ PRIOR APPLICATION DATA: described below: 9
/ APPLICATION NUMBER: 08/353,784
/ FILING DATE: 9 December, 1994

```



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; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 213/005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1079 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-485-588-8

Query Match 34.5%; Score 1690.5; DB 1; Length 1079;
Best Local Similarity 38.0%; Pred. No. 75e-149;
Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

QY 18 LAFW--AELGSAKEKEBEERTCLLKGKVDAAHSLVIGLFPIDSRTPANESI-LE 74
DB 11 LALAWHSSAYGPQRAQKGD-----IILGLFPFHFGVAADQDLKSR 54
QY 75 PASACEGNFQFRPMKAMHMKIKRDKILPNITGLYQIFDTCFTISKSVEALVP 134
DB 55 PESVEICIRYFRFRWLQAMIFAIBEINSPLLNMTGLYRIFDTCNTVSKALEATLSF 114
QY 135 LTCQE--ENRPNFRNSTGAPPA--GIVGAGGSFLVPASRIILGLYLLPQVGYTSCVIL 189
DB 115 VAQNKIDSLMDEFCNCHSEHIPSTIAVVGATGSGVSTAVANLGLFYIPQVSTASSRL 174
QY 190 SDKIQPFSYLRVIASDKIQSKAYVKRIQHFQWVWGAIAADDDYGYKGYKTKFKEMESAN 249
DB 175 SNKNQYKSLFTIPNDEHQATAMADIIIEFRWNVGTIAADDDYGRPGIEKFEAEERD 234
QY 250 LCVAFSETTPKVYSNEMQKAVKAVTSTAKVILVYTSIDLSLFLVLEMIHNITDRTWI 309
DB 235 ICIDFSELISQYSDDEEIQVVEVIQNSTAKVIVWFSSGPDLEPLIKEIVRRNITGRILW 294
QY 310 ATEAWITSAIAKPEPPYFGGTIGATPRSVPLGKBEFLYDHPNKPNDVLTITFMTQ 369
DB 295 ASEAWASSLIAMPPEYFVHVVGTTIGFGLKAGQIPGPRFELQKVRPKSVHNGFAKEFWE 354
QY 370 AFNCTWPNSS--VPYNVHRVNMTCEDRLYDMSD---QLCTGEBKLEJDLKNTYLDTSQ 423
DB 355 TFNCHLQEGAKGLPVDFTVRSHEEG-GNRLNNSSTAFRLCTGDENINSVETPYNDYEH 413
QY 424 LRITKCKQAVYAIAGHLHLSRCQEGQPGFSGNQCAVIPTDFQWLYMYMKBIKFKSH 483
DB 414 LRISYNVYLAVSIAHALQDIYCLPGRGLF-TNGSCADIKKVEAQLKHLNFTNN 472
QY 484 EDKRWILDDGDLKNGHYDVLNHLDD-DEGEISFTVTVGRNFRSTFELVIPNSTIFWN 542
DB 473 MGEQVTFDECDGLV-GNYSIINHLSPDGSIIVFKEVGYNNVYAKKGERLFINEEKILWS 531
QY 543 TESSRLPHSVCTDVCPPGTGRGVQREPICCFDSIPCADGHVSRKPKGERECEQCGBDYWS 602

532 GFSREVPSNCSRDCCQAGTRKGIIEGEPCTCECEVCPDGEYSGETDASACDKCPDDFWS 591
603 NAKQSECVLKEVEYLAYDEALGFTTILVLSVFGAFVVLAVTAVVHHRHTPLVNASDWOLG 662
592 NENHTSCIAKEIEFLAWTEPFGLATLFAVLGIFLFAVLGFIKFRNTPIVKATNRELS 651
663 FLIQVSLIIMLSSMLFIDKPHNWSMAQOVTLALGFSLCLSLGKTSLSFLAYRISKS 722
652 YLLFSLCCPFSSSLFFIGEPODWTCLRQAPAGISFVLICISILVKNRVLVP--EA 708
723 KQLTSMHPLYRK-----IIVLSVLARIGICTAYLILBPPMYKMSQNTKILG 774
709 KIP-TSFH---RKWGLNLQFLVFLCTFMQLICIIINLYTAPPSSYRNHELEIFIT 764
775 CNEISIEFLYSMFGIDAFLLALICELTFTFVAROLPNYVEGKCTTFGLMVFPIIWMSPVP 834
765 CHEGSLMALGSLIGTYTCLLAAICFFPAKSKLPENFEAKFITFSLGLIFFIIVISFIPA 824
835 YLSTKGKFMAYEIPAILASSHGLGCIAPAKCLIIILAPERNTSIVCGRVSTTDNCIQ 894
825 YASTYKGFVSAYEVIALAASFGLLACIFFNKVYIILPKPSRNTIEEV--RSTAAHAFK 882
895 LTSAPV-----SSELNNTTWS 910
883 VAARATLRRPNISRKRSLSLGGSTGS 908

RESULT 10
US-08-484-565-8
; Sequence 8, Application US/08484565
; Patent No. 5763569
; GENERAL INFORMATION:
; APPLICANT: Edward M. Brown
; APPLICANT: Steven C. Hebert
; APPLICANT: James E. Garrett, Jr.
; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESS: Lyon & Lyon
; STREET: First Interstate World Center
; STREET: Suite 4700
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FASTSEQ
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,565
; FILING DATE: 7 June, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: 9
; APPLICATION NUMBER: 08/353,784
; FILING DATE: 9 December, 1994
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161

```

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; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 213/006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1079 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-484-565-8

Query Match 34.5%; Score 1690.5; DB 1; Length 1079;
Best Local Similarity 38.08; Pred. No. 7.5e-149;
Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

QY 18 LAFLLW--AELGSEAKEKEBERTCRLGKCVDAENSHLVIGLFPIDSRITIPANESI-LE 74
DB 11 LALAHSSAVGPQRAQKGD-----IILGLFPIHFGVAAKQDKSR 54
QY 75 PASAKCGFNFQPRWAKMIHMIKEINKKIDILPNITIGYQIFDTCFTISKSVEALVP 134
DB 55 PESVECIYNFRGFRWLQAMIFAEIEINSSPFLPNMTLGYRFDTCNTVSKALEATLGF 114
QY 135 LTQGE--ENRPNRNTSGAPPA--GIVGAGGSFLSPASRIILGLXYLPQGVTS-CVIL 189
DB 115 VAQNKIDSLNDEFNCSEHPISTIAVVGATSGVSTAVANLGLFYIPQVTSASSRL 174
QY 190 SDKYQFSLRVIASDKIQKAVVVKRIHQFGWVWGAIAADDDYKGYGVKTFEKKMESAN 249
DB 175 SNKNQYKSLRTIPNDEHQATAMADIEYFRWVGTIAADDDYGRGIEKPREBAERD 234
QY 250 LCVAFSETIPKVINENKQKAVAKVTSTAKVILVTSIDISLFLVLEMIHNITRTWI 309
DB 235 ICIDFSELISQYDEEBIQVVEIQNSTAKVIVWFSSGPDLEPLIKEIVRRNITGRWL 294
QY 310 ATEAWITSALIAKPEYFPYGGTIGPATRSPVPLKELFYDHPKNDPNDVLTIEFMQT 369
DB 295 ASEAWASSLIAMPEYFHVVGTTIGLGLKAGQIPGFRFLQKVPKRSVHNGPAKEFWE 354
QY 370 AFNCTWPNSS---VPYVNDHRVNMGTKEBRLYDMSD---OLCTGBEKLKEDLNKTYLDT 423
DB 355 TFNCHLQEGAGKPLPVDTFVRSHEEG-GNELLNSSTAFLPLCTGDNINSVETPYMDYEH 413
QY 424 LRIYKQCKQAVYATAHGLDHLSCQEQGFGNQOCAYIPTDFQWLMYKMKIKFKSH 483
DB 414 LRSYNYLVAVYSTAHALQDIYTCPLGRGLF-TNGSCADIKKVEAWQVLKHLRLHFTNN 472
QY 484 EDKVVILDDNGLKNGHVDVNLNHL-D-DEGEISFVTVGRFNFSNTFELVPIPTNSIFWN 542
DB 473 MGEQVTFDECCDLV-GNYSIINHLSPEDGSIYFKEVGYNTVAKGERLFINEEKILWS 531
QY 543 TESSRLPHSVCTVCPGTGRGVQREPICCFDSIPCADGHVGRKPGERECEQCGEDYWS 602
DB 532 GFSREVPFNSCRDQAGTRKGIIEGEPTCCFECVCEPDGEYSGETDASACDKCPDPFWS 591
QY 603 NAQSECVLKEVEVLAVDEALGFTLVLSVFGAFVAVLVAVTVVHRRHTPLVNASQWQJG 662
DB 592 NENHTSCTAKEIEFLAWTEPFGIALTLFAVLGIFLTAFLVGVFEIKFRNTPVAKTRNELS 651
QY 663 FLIQVSLIIMLSMLPIDKPHNWSMAGOVTLALGFSCLSLCKGTSLSFLAYRISKS 722
DB 652 YLLFLSCLCCFSSSLFFIGEPQDWTKRLQPAFGISFVLCSILCVTKNRVLVLF---EA 708

```

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RESULT 11
US-08-480-751-8
; Sequence 8, Application US/08480751
; Patent No. 5858684
; GENERAL INFORMATION:
; APPLICANT: Edward F. Nemeth
; APPLICANT: Edward M. Brown
; APPLICANT: Steven C. Hebert
; APPLICANT: Forrest H. Fuller
; APPLICANT: James E. Garrett, Jr.
; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Lyon & Lyon
; STREET: First Interstate World Center
; STREET: Suite 4700
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FASTSEQ
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/480,751
; FILING DATE: 7 June, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: 9
; APPLICATION NUMBER: 08/353,784
; FILING DATE: 9 December, 1994
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 213/004

```

## TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1079 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-480-751-8

Query Match 34.5%; Score 1690.5; DB 2; Length 1079;

Best Local Similarity 38.0%; Pred. No. 7.5e-149;  
Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

QY 18 LAPLM--AELGSAKEKEERTCRLLGKCVDAENHSLVIGLFPDSDRTIPANESI--LE 74  
DB 11 LALAHSSAYGPDQAQKGD-----IILGLFPPIHFGVAADQDLKER 54  
QY 75 PASAKCEGPNFORFRMKAMIMHKEINRDKDILPNITLGYQIFDTCFTISKSVEAVLVP 134  
DB 55 PESVECIYRNGFRWLQAMIPAIBEINSSPSLLPNMTLGYRIFDTCNTVSKALERTLSF 114  
QY 135 LTQGE---ENRPNFRNSTGAPFA--GIVGAGSFLSVPASRIILGLYLPQVGYTSTCVIL 189  
DB 115 VAQNKIDSLNDBFCNCSHEIPSTIAVVGATSGVSTAVANLLGLFYIPQVSAYSSRL 174  
QY 190 SDKYQPPSVLYRTASDKIOSKAVVKRIQHFGVWVWCAIAADDDYGYGVKTKERKESAN 249  
DB 175 SNKNQYKSLRTIPNDEHQAATWADIIYFRNWNVGTIAADDDYGRPGIEKPREABERD 234  
QY 250 LCVAFSETIPKYVSYNEKMKQKAVKTKSTAKIVLYTSDILSLFVLEMIHNIIDRTWI 309  
DB 235 ICIDFSELISQVSDSEIEIQVVEVIONSTAKIVVPSSGPDLEPLIKEIVRNIIGRIWL 294  
QY 310 ATEAMITSLIAKPEYPPYFGGTIGPATPRSVIPGLKBYLDVHNKDPNDVLTIEFWOT 369  
DB 295 ASEAMASSLLIAMPYEFYVVGTTIGRLKAGQIPGFRBFLQKVPKSVHNGFAKEFWEE 354  
QY 370 AFNCTWPNSS---VPYVDRHVNMTKEDRLVDMSD---QLCTGEKLEDKNTVLDTSQ 423  
DB 355 TNCILQEGAKGLPVDVTVRSHBEG--GNRLNLSSTAFPLCTGDNINSVETPYMDYEH 413  
QY 424 LRITKOCKQAVYAIAGHLDRSQEQGQPGFSNQOCAYIPDFDQMLVYMKIEIKFKSH 483  
DB 414 LRISYVNLAVYSIAHALQDIYTCPLGRGLP--TNGSCADIKKVEAQVLKHLRLNFTNN 472  
QY 484 EDKWILDDNGDLKNGHYDVNLNHLDD--DEGEISFTVTVGRPNRSTNPFELVITPNSTIFWN 542  
DB 473 MGEQVTFDECGDIV--GNYSIINWHLSPEDGSIVFKEGVYVYVAKKGERLFINBEKILWS 531  
QY 543 TESSRLPHSVCTDVCPPTGTRGVQREPIECDDPSIPCADGHVSRKPERGECQCEQEDYS 602  
DB 532 GFSREVPFNCSDRCQAGTRKGLIEGEPTCCPECVCGSGYSGETDASACDKCPDFWS 591  
QY 603 NACKSCLVKEBYELAYDALGFTLVLSVFGAFVVLAVTVVIRHPTPLVNASDWOLG 662  
DB 592 NENHTSCIAKETFLANTBFGIATLFAVLGIFTAVLGVFIKFRNTPIVKATNRELS 651  
QY 663 FLIQVSLIIMLSMLFDKPNHNSCMAQVTLALGFSLCLSGLLKTSLSLFLAYRISKS 722  
DB 652 YLLLPSSLCCFSSSLFFIGEPQDWTCLRAQPAFGISFVLCISCLVKTNRVLLVP--EA 708  
QY 723 KYQLTSMHPLYRK-----IIVLSVLAEIGICTAYLILBPPVYKMSQNTKILG 774  
DB 709 KIP-TSFH---RKWGLNLQFLVFLCTFMQILICIMLYTAPPSSRYRHELEDEIFT 764  
QY 775 CNEISTEFLYSMPGIDAFALLCLFTTFVAROLPDNYEGKCTIFGMLVFFIWNFSVPV 834  
DB 765 CHEGSLMALGSLIGYTCLLAAICFFPAFKSRKLPENFEAKITFSNLIFFIIVWISFIPA 824  
QY 835 YLSTKGKPKMAVEIPAILASSHGLGCIIPAKCLIIILRPERNTSIVCGRVSTTDNCIQ 894

DB 825 YASTYGFVSAVEVITAILAASFGLLACIPFNKVIILFKPSRNTIEEV--RSTAAHAPK 882  
QY 895 LTSAPV-----SSELNNTTVS 910  
DB 883 VAARATLRPNISRKRSLSLGGSTGS 908

## RESULT 12

US-08-943-986-8  
Sequence 8, Application US/08943986  
Patent No. 5962314  
GENERAL INFORMATION:  
APPLICANT: Edward M. Brown  
APPLICANT: Steven C. Hebert  
APPLICANT: James E. Garrett, Jr.  
TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
TITLE OF INVENTION: MOLECULES  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: First Interstate World Center  
STREET: Suite 4700  
STREET: 633 West Fifth Street  
CITY: Los Angeles  
STATE: California  
COUNTRY: USA  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: FASTSEQ  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/943,986  
FILING DATE: 03-OCT-1997  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/484,565  
FILING DATE: 7-June-1995  
APPLICATION NUMBER: 08/353,784  
FILING DATE: 9 December, 1994  
APPLICATION NUMBER: PCT/US/94/12117  
FILING DATE: 21 October, 1994  
APPLICATION NUMBER: U.S. 08/292,827  
FILING DATE: 23 August, 1994  
APPLICATION NUMBER: U.S. 08/141,248  
FILING DATE: 22 October, 1993  
APPLICATION NUMBER: U.S. 08/009,389  
FILING DATE: 23 February, 1993  
APPLICATION NUMBER: U.S. 08/017,127  
FILING DATE: 12 February, 1993  
APPLICATION NUMBER: U.S. 07/934,161  
FILING DATE: 21 August, 1992  
APPLICATION NUMBER: U.S. 07/834,044  
FILING DATE: 11 February, 1992  
APPLICATION NUMBER: U.S. 07/749,451  
FILING DATE: 23 August, 1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Heber, Sheldon O.  
REGISTRATION NUMBER: 38,179  
REFERENCE/DOCKET NUMBER: 213/006  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1079 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-943-986-8

Query Match 34.5%; Score 1690.5; DB 2; Length 1079;  
Best Local Similarity 38.0%; Pred. No. 7.5e-149;  
Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

QY 18 LAFW--AELGSAKEEKEERTCRLLGKCVDAENHSLVIGGLPPIIDSRIPANESI-LE 74  
DB 11 LALAWSSAYGPDQAQKGD-----IILGGLPPIHFGVAADQDLKSR 54

QY 75 PASAKCEGFNFQFRWMMKAMHMIKEINKRKDILPNTILGYQIPIOTCTFTTISKSVEALVF 134  
DB 55 PESVECIYRNFGRFWLQAMFAIBEINSPLPNTILGYRIPTDCTNTYSKALEATLSP 114

QY 135 LTQGE---ENRFNRNSTGAFPA--GIYVAGSGFSLVSPASRILGLYLPLQVGYTSTCVIL 189  
DB 115 VAQNKIDSLNDFEFCNSHPISTIAVVGATGSGVSTAVANLLGLFVIPQSVASSRLL 174

QY 190 SDKYQFSLRVLTASDKIOSKAVKRIQHFQWVWVGATAADDDYKGYGVKTEKESAN 249  
DB 175 SNQYQKSLRIPINDEHQATAMADIIEYFRNWVGTTAADDYDGRFGIEKFRFEAEERD 234

QY 250 LCVAFSETIPKPVYSNEKQKAVKAVKTAKVILVYTSIDLSLVLEMIHNIITDRTWI 309  
DB 235 ICIDFSELISQYSDSEIEIQVVEVIONSTAKVIVVFSSGPDLELIKEIVERNITGRWL 294

QY 310 ATEAWITSAIAKPEYFPFGTIGFATPRSVIIGLKEFLYDHPNDKPDVLTIEFWQT 369  
DB 295 ASEWASSLLIAMPYEFHVVGVTGIGFGLKAGQIIFGPFREFLQKVPKRSVNGFAKEFWEE 354

QY 370 AFNCTWPNS---VPYNDVHRVNMGTGKDRLYDMSD---OLCTGEEKLEDKNTYLDTSQ 423  
DB 355 TFNCHLQEGAKGLPVDIVFVRSHEBG--GNRLNNGSTAFRLCTGDNENINSEVFPYMDYEH 413

QY 424 LRITCKQKQAVIAHGLDHLISRCQEGGPGSQCAIYPTDFWQMYMKEIKFKSH 483  
DB 414 LRISYNYLVAVYSIAHALQDIYVTLCPGRGLE--TNGSCADIKKVEAMQVLRHLNFTNN 472

QY 484 EDKWITLDNGDLKNGHYDVLNWLHD--DEGRISFVTVGRNFRSTNPELVIPNTSIFWN 542  
DB 473 MGEQVTFDECDLV--GNTSIINWHLSPEDGSIKVEYGVYNNVAKGERLFINEEKILWS 531

QY 543 TSSRLPHSVCTDVPQGTGRGFVQREPICCFDSIPCADGHVRKPGERECEQCGEDYWS 602  
DB 532 GFSREVPFNSCRDCAQTRKGIIEGEBTCCEFCVCECPDGEYSGETDASACDKCPDWS 591

QY 603 NAKKSECVLKEVEYLAYDEALGFTLIVLSVEGAVLVAVTVVIRHPTLVNADWQLG 662  
DB 592 NENHSCIAKEIEFLAWTEPFGIALTFAVLGIFELTAFVLGVFKFRNTPIVAKTRNELS 651

QY 663 FLIQVSLIIMLSMLFDKDNHNSCMAGQVTLALGFLSCLSLGLTSLFLAYRISKS 722  
DB 652 YLLLSLCCPSSSLFFICEPQDWTCLRQAPAGISFVLCSILVKNRVLVLF---SA 708

QY 723 KQLTSMPLVYK-----IIVLSVLAIEGICTAYLILEPMPVYKMSQNTKILIG 774  
DB 709 KIP-TSFH---RKWGLNLQPLLFLVCLTFQMQLICILWLVTAAPPSSVRNHELEIPIIT 764

QY 775 ONEISIEFLYSMFGDAELALLCLTTFVARQLPDNYEKGCTFGMLVFFLIWMSFVVP 834  
DB 765 CHEGSIMALGSLUGTCLLAAICFFPAFKRKPENFEAKFITFSMLFFIWIWISFPA 824

QY 835 YLSTKGFMAVEIPAILASSHGLLGCTIFAPKCLIIILLRPERNTSIVCGRVSTTDCNQI 894  
DB 825 YASTYGFKFSVAVEVIAIILAAFGGLLACIFFNKVYIILFKSRNTIEEV--RSTAAHAFK 882

QY 895 LTSAPV-----SSELNNTVVS 910  
DB 883 VAARATLRPNISRKRSSSLGGSTGS 908

RESULT 13  
US-08-353-784-8  
; Sequence 8, Application US/09353784

Db 55 PESVEICRYNFRGRWLOQAMIFAEIBEINSFSLPNTLGYRIFDTCNTVSKALEATLSF 114  
Qy 135 LTCQE---ENRPNFRNSTGAPPA--GIVGAGSFLSVPASRIILGLYLPQGVYTSCTVIL 189  
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Qy 190 SDKYOPPSYLRVIASDKIQSKAVVKRIQHPGWVWGAIAADDYGYKGVKTKPKMESAN 249  
Db 175 SNKNQYKSFRTIPNDEHQATMADIEYFRWNWGTIAADDYGRPGIEKFEAEERD 234  
Qy 250 LCVAFSETPKVSNEKQKAVAKVTSTAKVILVATSDIDLSLFLVLEMIHNITDRTWI 309  
Db 235 ICIDFSELISQYDEBEIQVVEIONSTAKVILVWFSSGPDLEPLIKEIVRRNRITWIL 294  
Qy 310 ATRAWITSALIAKPEFPYFGTIGFATPRSVIPGLKEFLYDVHPNKPNDVLTITFQWT 369  
Db 295 ASEAWASSLIAMPEYFHVVGTTIGFGLKAGQIPGFEFLQKVPKSVHNGFAKEFWEE 354  
Qy 370 AFNCTWPNSS---VPYNVHRVNMVKEDRLYDMSD---OLCTGEEKLEDLKNYLDTSQ 423  
Db 355 TFNCHLQBGAGKPLVDVTFVRSHHEG-GNRLNLSSTAFRPLCTGDNINSVETPYMDYEH 413  
Qy 424 LRITKQCKQAVVIAHGLDHLSCQBGQPGSGNOCQAVPTPDMOLMYMKIEIKFSH 483  
Db 414 LRISYNYLAVISIAHALQDIYTCLPGRGLF-TNGSCADIKKVEAWQVLKHLHLNFTNN 472  
Qy 484 EDKWLIDDDGDLKNGHYDVLNHLDD-DEGEISFVTVGRFNFRSTNPFELVPTNSTIFWN 542  
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Qy 543 TBSRLPHSVCTDVPPTGTRGVQREPICCPDSIPCADGHVSRKFGERECEOCGEDYWS 602  
Db 532 GFSREVPFNSCRDCQAGTRKGIIEGEPTCCPECEPCDGESETDASACDKCPDFFWS 591  
Qy 603 NAKSCVLEKVEYLAYDEALGTIVLSVFGAFVVLAVTAVVIRHTPLYNASDWQLG 662  
Db 592 NENHTSIAKIBFLAWTEPFGALTFLFVLGFLTFVGLVGFKFRNTPIVKATNRELS 651  
Qy 663 FLTQVSLIIMLSMLFIDKPHNWSWAGQVTLALGFLSLCLLCKTSLSFLAYRISKS 722  
Db 652 YLLFSLLCFSSSLFFIGEPQDWTCLRQPAFGISFVLCISILVKTNRVLVP---EA 708  
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Db 709 KIP-TSFH---RKWGLNLQFLVLVFLCTFMQILICIIMLYTAPPSSYRNHELEDEIIFT 764  
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Db 825 YASTYKFKVSAVEVIALAASFGLLACIFPKVYIILFKPSRNTIEEV---RSTAAHAFK 882  
Qy 895 LTSAFV-----SSELNNTVS 910  
Db 883 VAARATLRPNISKRSSSLGGSTGS 908

## RESULT 14

US-08-484-719B-8  
; Sequence 8, Application US/08484719B  
; Patent No. 6031003  
; GENERAL INFORMATION:  
; APPLICANT: Edward F. Nemeth, Edward M.  
; APPLICANT: Brown, Steven C. Hebert,  
; APPLICANT: Bradford C. Van Wagenen,  
; APPLICANT: Manuel F. Balandrin,  
; APPLICANT: Forrest H. Fuller, Eric G.  
; APPLICANT: Delmar, Scott T. Moe  
; TITLE OF INVENTION: CALCIUM RECEPTOR-ACTIVE  
; TITLE OF INVENTION: MOLECULES  
; NUMBER OF SEQUENCES: 20

; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: First Interstate World Center  
; STREET: Suite 4700  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: USA  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: MS Word  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/484,719B  
; FILING DATE: 7 June, 1995  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/353,784  
; FILING DATE: 9 December, 1994  
; APPLICATION NUMBER: PCT/US/94/12117  
; FILING DATE: 21 October, 1994  
; APPLICATION NUMBER: U.S. 08/292,827  
; FILING DATE: 23 August, 1994  
; APPLICATION NUMBER: U.S. 08/141,248  
; FILING DATE: 22 October, 1993  
; APPLICATION NUMBER: U.S. 08/009,389  
; FILING DATE: 23 February, 1993  
; APPLICATION NUMBER: U.S. 08/017,127  
; FILING DATE: 12 February, 1993  
; APPLICATION NUMBER: U.S. 07/934,161  
; FILING DATE: 21 August, 1992  
; APPLICATION NUMBER: U.S. 07/834,044  
; FILING DATE: 11 February, 1992  
; APPLICATION NUMBER: U.S. 07/749,451  
; FILING DATE: 23 August, 1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Douglas C. Murdock  
; REGISTRATION NUMBER: 37,549  
; REFERENCES/DOCKET NUMBER: 213/007  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1079 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-484-719B-8

Query Match 34.5%; Score 1690.5; DB 3; Length 1079;  
Best Local Similarity 38.0%; Pred. No. 7.5e-149;  
Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;

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Qy 135 LTCQE---ENRPNFRNSTGAPPA--GIVGAGSFLSVPASRIILGLYLPQGVYTSCTVIL 189  
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Qy 190 SDKYOPPSYLRVIASDKIQSKAVVKRIQHPGWVWGAIAADDYGYKGVKTKPKMESAN 249  
Db 175 SNKNQYKSFRTIPNDEHQATMADIEYFRWNWGTIAADDYGRPGIEKFEAEERD 234

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QY 250 LCVAFTETPKVYSNEKQKAVKAVTSTAKVILVYTSIDLSLFLVLEMLHNITDRTWI 309
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Db 295 ASEAWASSLIJANPEYFHVVGTTIGLKGAGQIPGFEFLQKVPKSVHNGFAKEFWEE 354
QY 370 AFNCTWPNSS---VPYVNDHRVNMVTKEDRLYDMSD---OLCTGEBKJEDLKNYLDTSQ 423
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QY 424 LRITKQCKQAVYATAGHDLHLSRQEGQPGFSGNQCAVPTPFDWQWLVYMKKEIKFKSH 483
Db 414 LRISYNYLVAYSIAHALQDIYTCPLGRGLF-TNGSCADIKKVEAWQVHLKRLHNLFTNN 472
QY 484 EDKRWILDDNGDLKNGHYDLNHLSD-DEGEISFVTVGRFNRSTNFIPTNFTIFWN 542
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QY 543 TESRLPHSVCTDVPCTGRTGQVQREPICTCFDSIPCADGHVSRKPGERECEOCGEDYWS 602
Db 532 GFSREVPFNSCRDQAGTRKGIIEGEPTCCFECVCPDGEYSGETDASACDKCPDFFWS 591
QY 603 NAKQSECVLKEVEVLADEALGFTLVLSVFGAFVVLAVTAVYVHHTPLVYNASDWQLG 662
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QY 723 KTQUTSMHPLYRK-----IIVLSVLAIEIGITAYLILEPMPYKMSQNTKILG 774
Db 709 KIP-TSFH---RKWMLNQLFLVFLCTFMQILICIILWYAPPSSYRNHELEDEIIFT 764
QY 775 CNEISIEFLYSMGIDAFALLCFLTFVVARQLPDNYEGCKITFGMLVFFIWMSPV 834
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QY 895 LTSAPV-----SSELNNTVS 910
Db 883 VAARATLRPNISKRSSSLGGSTGS 908

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RESULT 15

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US-08-484-159-8
; Sequence 8, Application US/08484159
; Patent No. 6313146
; GENERAL INFORMATION:
; APPLICANT: Bradford C. Van Wagenen
; APPLICANT: Manuel F. Balandrin
; APPLICANT: Eric G. Del Mar
; APPLICANT: Edward P. Nemeth
; TITLE OF INVENTION: CALCULUM RECEPTOR-ACTIVE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: First Interstate World Center
; STREET: Suite 4700
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage

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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FASTSEQ
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,159
; FILING DATE: 7 June, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: 9
; APPLICATION NUMBER: 08/353,784
; FILING DATE: 9 December, 1994
; APPLICATION NUMBER: PCT/US/94/12117
; FILING DATE: 21 October, 1994
; APPLICATION NUMBER: U.S. 08/292,827
; FILING DATE: 23 August, 1994
; APPLICATION NUMBER: U.S. 08/141,248
; FILING DATE: 22 October, 1993
; APPLICATION NUMBER: U.S. 08/009,389
; FILING DATE: 23 February, 1993
; APPLICATION NUMBER: U.S. 08/017,127
; FILING DATE: 12 February, 1993
; APPLICATION NUMBER: U.S. 07/934,161
; FILING DATE: 21 August, 1992
; APPLICATION NUMBER: U.S. 07/834,044
; FILING DATE: 11 February, 1992
; APPLICATION NUMBER: U.S. 07/749,451
; FILING DATE: 23 August, 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Heber, Sheldon O.
; REGISTRATION NUMBER: 38,179
; REFERENCE/DOCKET NUMBER: 214/101
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1079 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-484-159-8
; Query Match 34.5%; Score 1690.5; DB 3; Length 1079;
; Best Local Similarity 38.0%; Pred. No. 7.5e-149;
; Matches 352; Conservative 181; Mismatches 332; Indels 61; Gaps 17;
QY 18 LAPLW--AELGSEAKEEKEERTCRLGKCVDAENHSLVIGGLPPIDSRITIPANESI-LE 74
Db 11 LALAWHSSAYGPDQRAQKGD-----IILGGLFPIHFVGAADQDLKSR 54
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